

Claims PTO
09/03/2004
AMW

Claims 1-22 cancelled.

22. (Currently Amended) A smart card system, comprising:
an optical transceiver;
an electronic processor in communication with the optical transceiver; and
a first antenna in communication with the optical transceiver;
a second antenna; and
a portable power supply coupled to the second antenna;
wherein the portable power supply is for communicating electromagnetic energy
to the first antenna upon the second antenna receiving the electromagnetic signal; and
wherein the optical transceiver initiates optical transmission upon the first
antenna receiving an electromagnetic signal.

23. (Currently Amended) The smart card system of claim 22, further comprising a
power converter coupled to the first antenna, wherein the power converter is for providing an
output voltage to the electronic processor in response to the electromagnetic signal.

24. (Currently Amended) The smart card system of claim 23, further
comprising wherein the second antenna is wirelessly coupled to the power converter; and
a portable power supply coupled to the second antenna;
wherein the portable power supply is for communicating electromagnetic energy to the
first antenna upon the second antenna receiving the electromagnetic signal.

25. (Currently Amended) The smart card system of claim 24, further comprising:
a battery ohmically detached from the smart card; and
an oscillator in communication with the battery and the second antenna.

26. (Currently Amended) The smart card system of claim 24, further comprising:
a switch in communication with the portable power supply;
wherein the switch is for enabling the communication of electromagnetic energy from the
portable power supply to the smart card.

27. (Currently Amended) The smart card system of claim 24, further comprising a
housing with a retainer for receiving the smart card.

28. (Currently Amended) The smart card system of claim 27, further comprising:
a latch mechanically coupled to the housing;
wherein the latch is for enabling the portable power supply when the smart card is
inserted in the latch.

29. (Currently Amended) The smart card system of claim 22, wherein the electronic
processor further comprises a:

CPU;
a memory circuit; and
an input/output controller.

30. (Currently Amended) The smart card system of claim 29, wherein the memory
circuit is selected from the group consisting of a ROM, NVM and RAM.

31. (Currently Amended) A smart card reader, comprising:
an optical transceiver;
an electronic processor in communication with the optical transceiver; and
an antenna in communication with the optical transceiver;

wherein the optical transceiver is enabled to receive optical communication from an optical smart card upon the antenna transmitting an electromagnetic signal; and
wherein the optical transceiver is located on a computer screen.

32. (Original) The smart card reader of claim 31, further comprising:
an oscillator coupled to the antenna and to a power supply;
wherein the oscillator is for generating the electromagnetic signal at a first frequency.

33. (Cancelled).

34. (Currently Amended) An optical smart card system, comprising:
an optical smart card including:
a first optical transceiver;
~~a second-first~~ electronic processor in communication with the first optical transceiver; and
a first antenna in communication with the first optical transceiver; and
an optical smart card reader including:
a second optical transceiver;
a second electronic processor in communication with the second optical transceiver; and
a second antenna in communication with the second optical transceiver;
a power converter coupled to the first antenna;
a third antenna wirelessly coupled to the power converter; and
a portable power supply coupled to the third antenna;
wherein the power converter is for providing an output voltage to the first electronic processor in response to the electromagnetic signal;

wherein the portable power supply is for communicating electromagnetic energy to the first antenna upon the third antenna receiving the electromagnetic signal; and

wherein the first optical transceiver initiates optical transmission upon the first antenna receiving an electromagnetic signal from the second antenna.

35. (Original) The optical smart card system of claim 34, wherein the second optical transceiver is enabled to receive optical communication from the first optical transceiver upon the second antenna transmitting the electromagnetic signal.

36. (Cancelled).

37. (Cancelled).

38. (Currently Amended) The optical smart card system of claim 3634, further comprising:

a battery ohmically detached from the optical smart card; and
an oscillator in communication with the battery and the third antenna.

39. (Currently Amended) The optical smart card system of claim 3634, further comprising:

a switch in communication with the portable power supply;
wherein the switch is for enabling the communication of electromagnetic energy from the portable power supply to the smart card.

40. (Currently Amended) The optical smart card system of claim 34, further comprising a housing with a retainer for receiving the optical smart card.

41. (Currently Amended) The optical smart card system of claim 40, further comprising:

a latch mechanically coupled to the housing;
wherein the latch is for enabling ~~the~~^a portable power supply when the optical smart card is inserted in the latch.

42. (Currently Amended) The optical smart card of claim 34, wherein the first and second electronic processors, each comprise:

a CPU;
a memory circuit; and
an input/output controller.

43. (Original) The optical smart card of claim 42, wherein the memory circuit is selected from the group consisting of a ROM, NVM and RAM.

44. (Original) The optical smart card system of claim 34, further comprising an external power supply for transmitting electromagnetic signals to the optical smart card for energizing the optical smart card.

45. (Currently Amended) The optical smart card system of claim 34, wherein the optical smart card reader transmits the electromagnetic signal to the optical smart card for energizing the optical smart card and initiating an optical communication transaction transmission between the optical smart card and the optical smart card reader.

46. (Original) The optical smart card system of claim 34, wherein the second optical transceiver is located on a computer screen.

47. (Currently Amended) A method of transacting information in an optical smart card system including an optical smart card reader and an optical smart card, comprising:

transmitting an electromagnetic power signal to the optical smart card; and

initiating optical communication between the optical smart card and the optical smart card reader upon the optical smart card receiving the electromagnetic power signal; and

transmitting an electromagnetic signal from an external power supply other than an optical smart card reader power supply.

48. (Original) The method of claim 47, further comprising transmitting an electromagnetic signal from the optical smart card reader.

49. (Cancelled).

50. (Original) The method of claim 47, further comprising supplying power to the optical smart card from a portable power supply, comprising:

generating a first electromagnetic signal having a first frequency; and

radiating the first electromagnetic signal to the optical smart card tuned to the first frequency from a portable power supply ohmically detached from the optical smart card.

51. (Original) The method of claim 50, further comprising:

receiving a second electromagnetic signal; and

enabling the wireless radiation of the first electromagnetic signal upon receiving the second electromagnetic signal.

52. (Original) The method of claim 50, further comprising enabling the wireless radiation of the first electromagnetic signal upon receiving a signal from a switch contact closure.